

Steve Sisolak
Governor



Richard Whitley
Director

State of Nevada Department of Health and Human Services

Update Concerning the Status of COVID-19 in Nevada

Kyra Morgan, MS, State Biostatistician
Melissa Peek-Bullock, State Epidemiologist



01/14/2021

Helping people. It's who we are and what we do.

COVID-19 By The Numbers - Cases

KEY METRICS

1,759

NEW DAILY CASES

14-day moving average

1,876 Cases per 100K

30-day period

253,985 Cumulative cases

8,065 Cumulative cases per 100K

356

NEW DAILY TESTS PER 100K

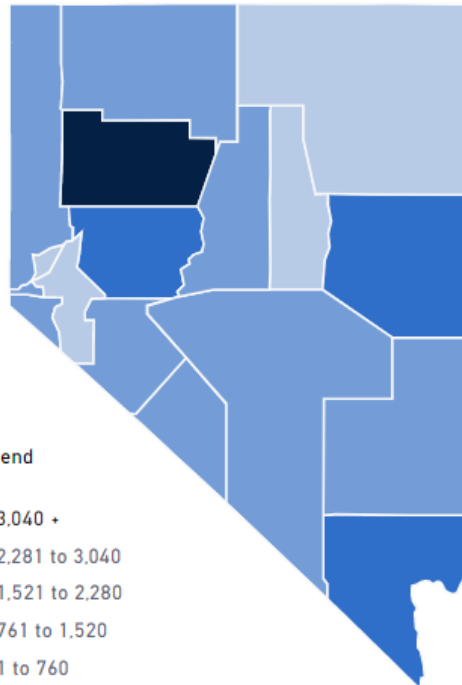
14-day moving average with 7-day lag

20

NEW DAILY DEATHS

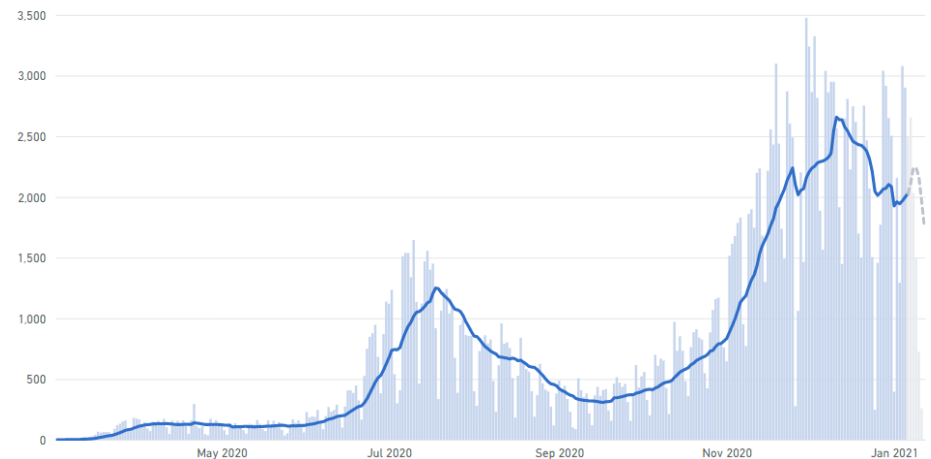
14-day moving average

CASES PER 100K (30-day period)



DAILY NEW CASES, BY SPECIMEN COLLECTION DATE

● New Cases ● Data incomplete for recent dates — New Cases (14-day moving avg.) — Incomplete data (14-day moving avg.)



The 14-day moving average of new daily cases has appeared stable since late December. However, that trend is skewed low due to extreme outlier days on Christmas and New Years day. On Christmas day we only had 247 individuals test positive (vs the overall average being about 1,700) and on NYD we had 395 individuals test positive. Tomorrow, new years day will drop out of the 14-day window, so the 14-day moving average will likely increase significantly. I anticipate we could see increases through the end of the month based on holiday transmission.



COVID-19 By The Numbers - Testing

KEY METRICS

356

DAILY TESTS PER 100K

14-day moving average with 7-day lag

21.5 % Test Positivity Rate

14-day period with 7-day lag

2,268,691 Cumulative Tests

1,759

NEW DAILY CASES

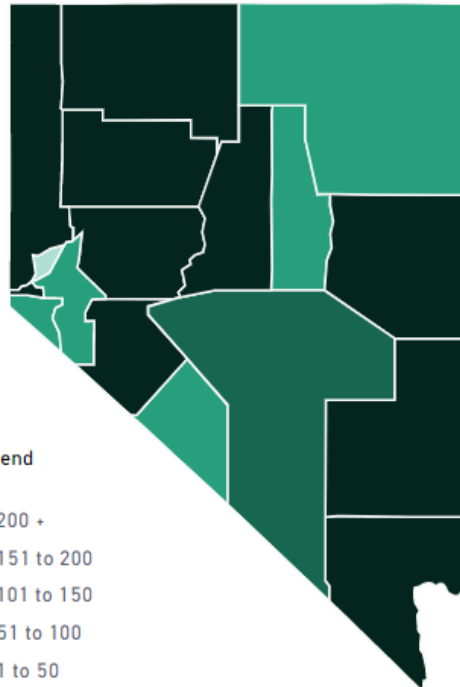
14-day moving average

20

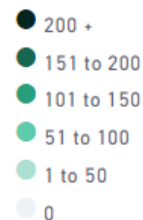
NEW DAILY DEATHS

14-day moving average

DAILY TESTS PER 100K (14-day moving avg. with 7-day lag)



Legend



14-DAY MOVING AVERAGE AND WHO GOAL BY SPECIMEN COLLECTION DATE

Test Positivity Rate (14-day moving avg. with 7-day lag) WHO goal



Test positivity, statewide, has increased daily since January 1st, at 21.5%.

We are seeing regional differences, which will be highlighted in a later slide.

COVID-19 By The Numbers - Hospitalizations

KEY METRICS

1,784

CONFIRMED & SUSPECTED HOSPITALIZATIONS

For the most recent day

411 Total ICU

For the most recent day

280 Total Ventilators

For the most recent day

1,759

NEW DAILY CASES

14-day moving average

356

NEW DAILY TESTS PER 100K

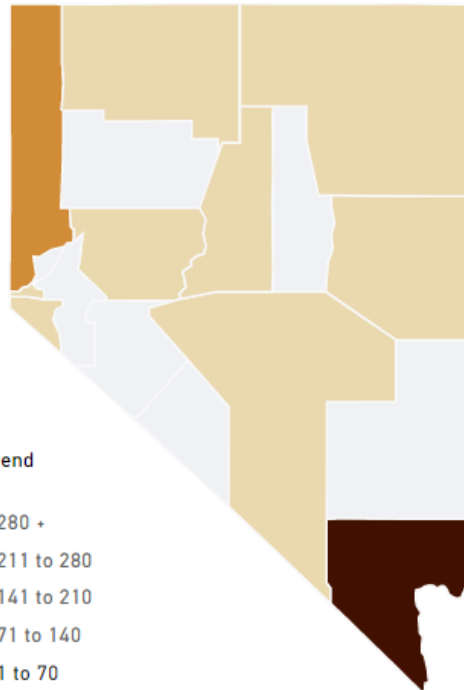
14-day moving average with 7-day lag

20

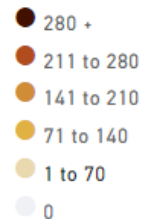
NEW DAILY DEATHS

14-day moving average

CONFIRMED HOSPITALIZATIONS (most recent day)

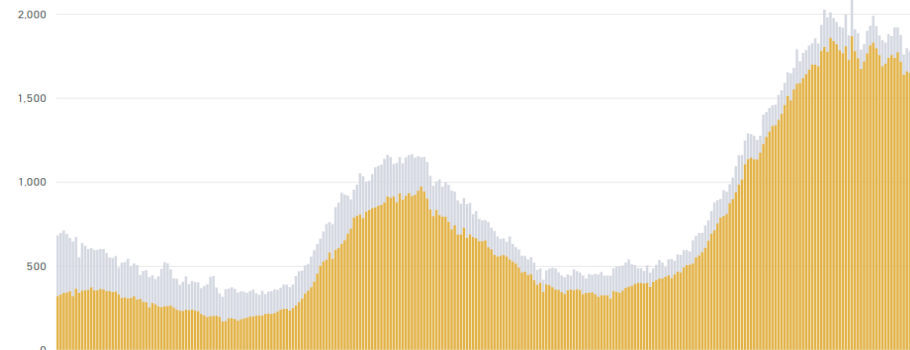


Legend



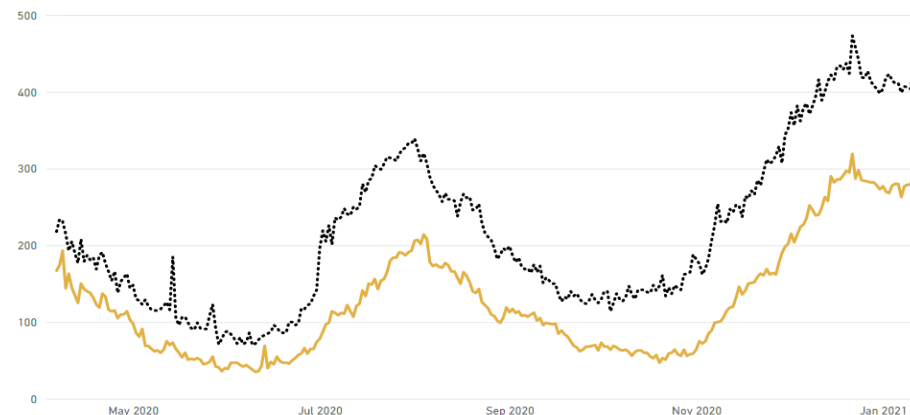
CONFIRMED AND SUSPECTED HOSPITALIZATIONS

Confirmed Suspected



CONFIRMED AND SUSPECTED INTENSIVE CARE UNIT (ICU) AND VENTILATOR UTILIZATION

Confirmed or Suspected COVID-19 in Intensive Care Unit (ICU) Confirmed or Suspected COVID-19 on Ventilator



There are currently 1,784 confirmed and suspected COVID-19 cases hospitalized in Nevada hospitals. This is down from a high of 2,126 on December 22nd.

We have not seen the impact of holiday transmission on hospitalizations yet, which will likely come through in the data closer to the end of this month and the beginning of February.

COVID-19 By The Numbers – Hospitalizations

Northern Nevada hospitalizations are down significantly from the peak that was observed throughout the month of December.

Las Vegas has not seen the same decrease and has plateaued since mid-December.

ICU utilization state-wide has declined slightly to 76%, however adult ICU utilization in Las Vegas increased to 90%, with 10 out of 14 facilities reporting 90% or higher.

It is likely that the number of COVID hospitalizations will increase through the end of the month, driven by holiday transmission, and possibly into February.

North (Washoe and Carson)

KEY METRICS

239
HOSPITALIZATIONS
For the most recent day

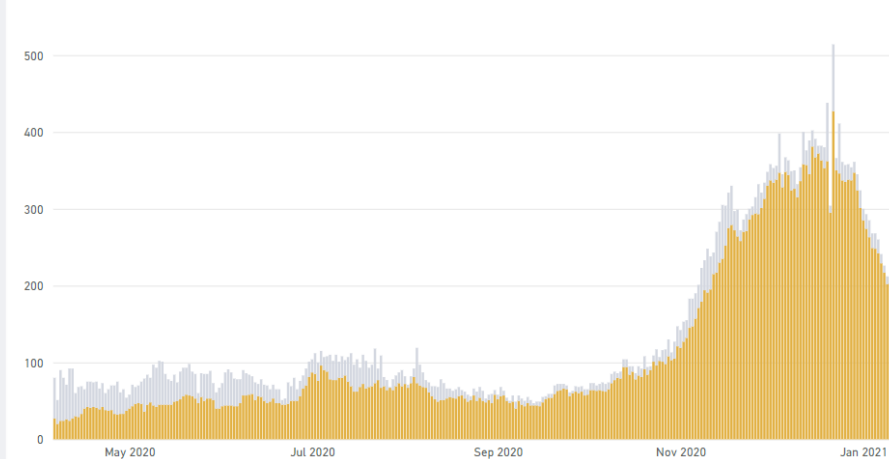
227 Confirmed

12 Suspected

Day	Confirmed (% change)	Confirmed + Suspected (% change)
01/12/21	-1.7% ▼	-0.8% ▼
01/11/21	13.8% ▲	14.2% ▲
01/10/21	0.5% ▲	-0.5% ▼
01/09/21	-6.9% ▼	-6.2% ▼
01/08/21	-5.2% ▼	-6.2% ▼
01/07/21	-5.4% ▼	-7.3% ▼
01/06/21	-2.4% ▼	-3.0% ▼
01/05/21	-0.4% ▼	0.0% ▲
01/04/21	-5.3% ▼	-6.0% ▼
01/03/21	-4.0% ▼	-2.7% ▼
01/02/21	-3.9% ▼	-2.3% ▼

CONFIRMED AND SUSPECTED HOSPITALIZATIONS

Confirmed Suspected



South (Clark)

KEY METRICS

1,508
HOSPITALIZATIONS
For the most recent day

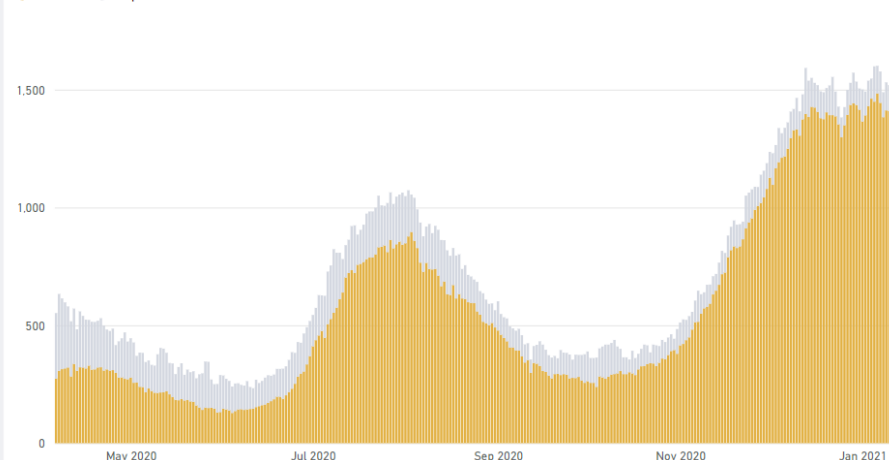
1,429 Confirmed

79 Suspected

Day	Confirmed (% change)	Confirmed + Suspected (% change)
01/12/21	0.3% ▲	-2.3% ▼
01/11/21	1.1% ▲	1.6% ▲
01/10/21	-0.2% ▼	-0.8% ▼
01/09/21	2.1% ▲	2.8% ▲
01/08/21	-4.2% ▼	-5.6% ▼
01/07/21	-2.7% ▼	-1.5% ▼
01/06/21	2.4% ▲	0.1% ▲
01/05/21	-0.9% ▼	3.4% ▲
01/04/21	2.2% ▲	0.6% ▲
01/03/21	2.8% ▲	3.1% ▲
01/02/21	1.9% ▲	-0.6% ▼

CONFIRMED AND SUSPECTED HOSPITALIZATIONS

Confirmed Suspected



COVID-19 By The Numbers - Deaths

KEY METRICS

20
NEW DAILY DEATHS
14-day moving average

26 Deaths per 100K
30-day period

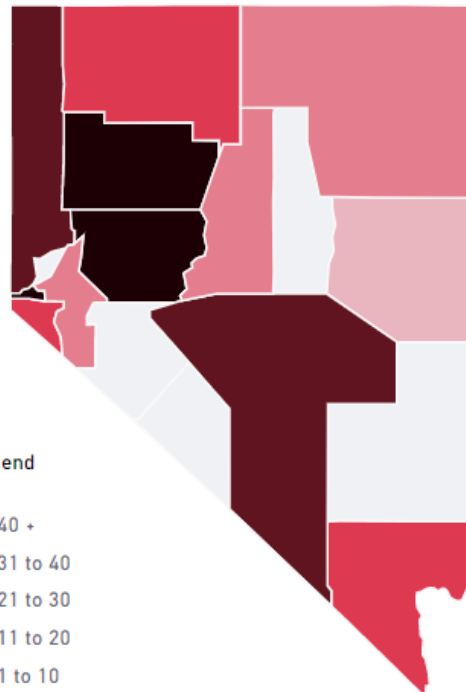
3,596 Cumulative Deaths

114 Cumulative Deaths per 100K

1,759
NEW DAILY CASES
14-day moving average

356
NEW DAILY TESTS PER 100K
14-day moving average with 7-day lag

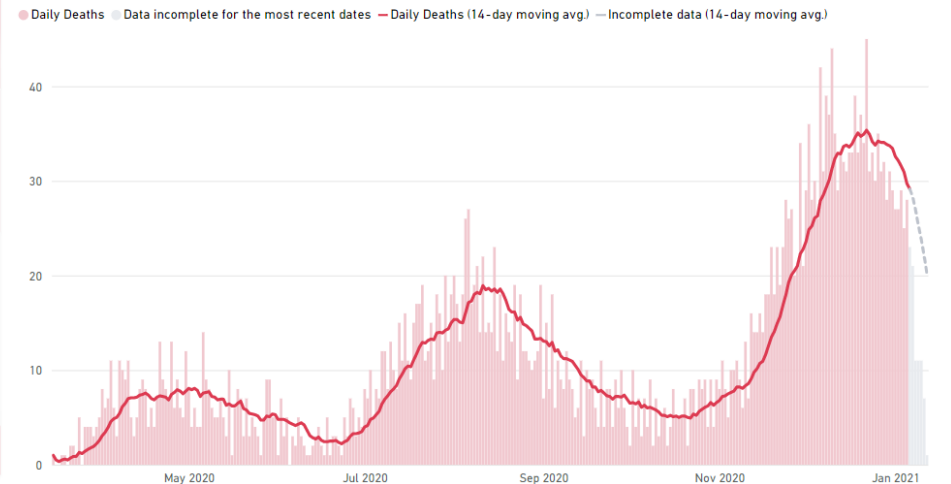
DEATHS PER 100K (30-day period)



Legend

- 40 +
- 31 to 40
- 21 to 30
- 11 to 20
- 1 to 10
- 0

DAILY DEATHS OVER TIME



We continue to see a high number of COVID-19 deaths reported daily, averaging 20 deaths per day over the previous 2-weeks. The record number of deaths was on December 22nd, at 45. We have not seen the impact of holiday transmission on mortality statistics yet. This will likely come through in the data closer to the end of this month and the beginning of February.

COVID-19 Testing Turnaround

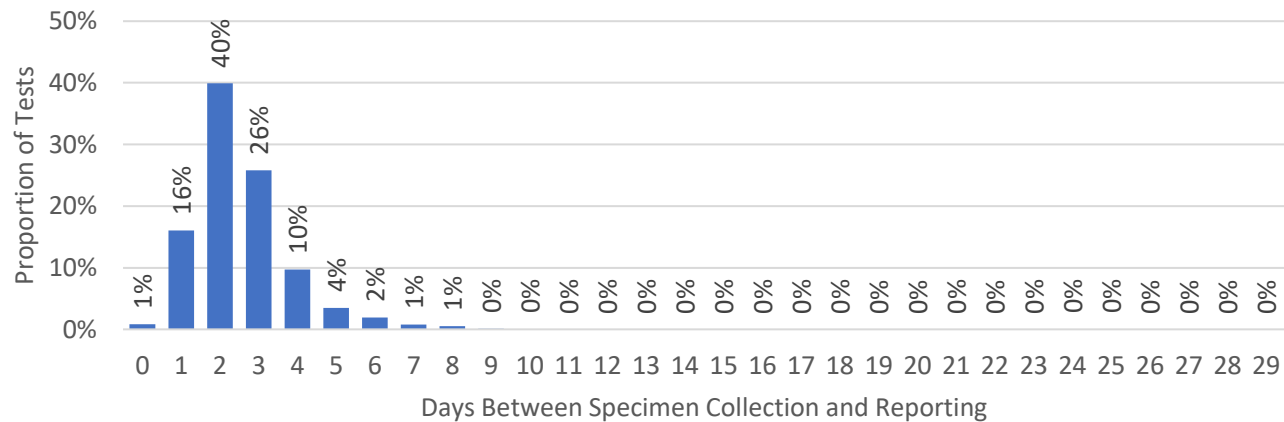
Median Time from Specimen Collection to Report, By County and Lab									
	CPL	LABCORP	NSPHL	Other	QUEST	RRMC	SOUTHERN	UMC	Total
Carson City	-	2	3	3	5	2	-	2	4
Churchill	-	2	2	3	6	2	-	2	2
Clark	2	2	3	2	3	1	2	2	2
Douglas	-	2	2	3	4	1	3	2	2
Elko	-	2	4	1	5	1	2	2	3
Esmeralda	-	3	2	2	4	2.5	2	2	3
Eureka	-	2	-	1	-	1	-	-	2
Humboldt	-	2	2	2	4	1	3	2	3
Lander	-	2	3	0	5	1	-	-	4
Lincoln	-	2	4	2	3.5	-	4	2	2
Lyon	-	2	2	2	4	2	2	2.5	2
Mineral	-	2	2	2	4	1	1	2	3
Nye	3	2	1	2	3	1	2	2	3
Pershing	-	2	3	2	5	1	-	-	5
Storey	-	2	2	3	4	1	-	-	2
Washoe	-	2	1	3	4	1	3	2	2
White Pine	-	2	1	2	6	2	-	2	6
Total	2	2	2	2	4	1	2	2	2

For Specimens collected November 30th – current, as of 01/12, it has taken approximately 2 days after specimen collection for results to be reported.

Differences across different counties and laboratories are displayed in the table above.



COVID-19 Testing Turnaround



Distribution of the Number of Days between Specimen Collection to Report, By County

Days	Carson City	Churchill	Clark	Douglas	Elko	Esmeralda	Eureka	Humboldt	Lander	Lincoln	Lyon	Mineral	Nye	Pershing	Storey	Washoe	White Pine	Total
0	0%	1%	0%	1%	2%	0%	1%	12%	2%	3%	2%	0%	2%	1%	1%	1%	0%	1%
1	9%	15%	13%	17%	14%	10%	14%	8%	3%	11%	24%	18%	11%	2%	19%	35%	4%	16%
2	17%	41%	43%	33%	30%	24%	53%	17%	16%	49%	37%	31%	27%	3%	48%	31%	8%	40%
3	21%	34%	28%	24%	19%	25%	29%	15%	19%	10%	23%	29%	38%	6%	27%	15%	5%	26%
4	14%	6%	9%	13%	13%	28%	3%	27%	27%	25%	8%	12%	12%	24%	4%	10%	11%	10%
5	13%	0%	3%	3%	10%	12%	0%	14%	17%	2%	2%	5%	4%	19%	1%	3%	16%	4%
6	10%	1%	2%	1%	3%	2%	0%	6%	8%	1%	1%	1%	1%	20%	0%	1%	27%	2%
7	5%	1%	1%	0%	4%	0%	0%	1%	6%	0%	1%	2%	0%	14%	0%	1%	15%	1%
8	4%	0%	0%	0%	5%	0%	0%	0%	1%	0%	0%	1%	0%	6%	0%	1%	5%	1%
9	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	0%	0%	8%	0%
10	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%



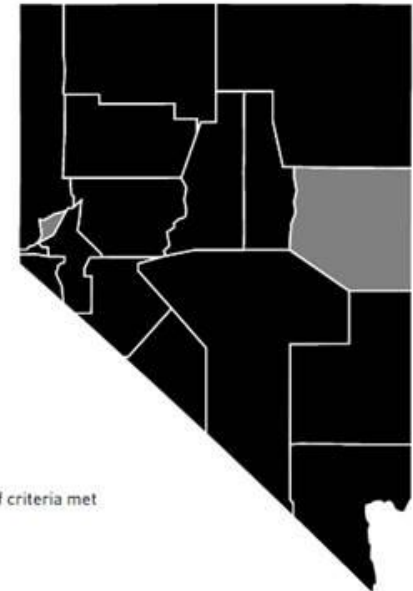
COVID-19 County Tracker

Data as of 01/10/2021

A county is flagged for elevated disease transmission if it meets two of the three criteria:

- 1. Average number of tests per day (per 100,000) < 100.** The average number of molecular tests conducted in the most recent complete two week period in a county, divided by the number of people living in the county. This number is then multiplied by 100,000 to control for varying populations in counties. Due to reporting delay, this is reported over a 14-day period with a 7-day lag. Counties that average fewer than 100 tests per day will meet this criterion.
- 2. Case rate (per 100,000) > 200.** The total number of cases diagnosed and reported over a 30-day period divided by the number of people living in the county. This number is then multiplied by 100,000 to control for varying populations in counties. Counties with a case rate greater than 200 per 100,000 will meet this criterion.
- 3. Case rate (per 100,000) > 50 AND testing positivity > 8.0%.** The total number of positive molecular tests divided by the total number of molecular tests conducted. This number is then multiplied by 100 to get a percentage. Due to reporting delay (which may be different between positive and negative tests), this is reported over a 14-day period with a 7-day lag. Counties with a test positivity > 8.0% paired with case rate greater than 50 per 100,000 will meet this criterion.

County	Average Number of Tests per Day per 100k (14-day avg. with 7-day lag)	Case Rate per 100k (last 30 days)	Test Positivity (14-day with 7-day lag)
Carson City	320	974	11.4%
Churchill	306	1,588	18.1%
Clark	386	2,019	22.0%
Douglas	146	845	22.2%
Elko	136	800	19.5%
Esmeralda	117	924	37.5%
Eureka	124	458	20.6%
Humboldt	160	1,354	27.7%
Lander	311	1,084	10.3%
Lincoln	76	1,135	41.8%
Lyon	144	702	18.0%
Mineral	501	1,316	9.1%
Nye	146	743	22.0%
Pershing	624	7,742	26.2%
Storey	40	45	4.0%
Washoe	281	1,411	18.5%
White Pine	1,047	2,456	5.5%



All counties in Nevada, except for Storey and White Pine, are flagged for elevated transmission.

Of those counties that were flagged for elevated disease transmission:

- All are flagged with a high case rate (>200).
- All are flagged with a high test positivity (>8%).



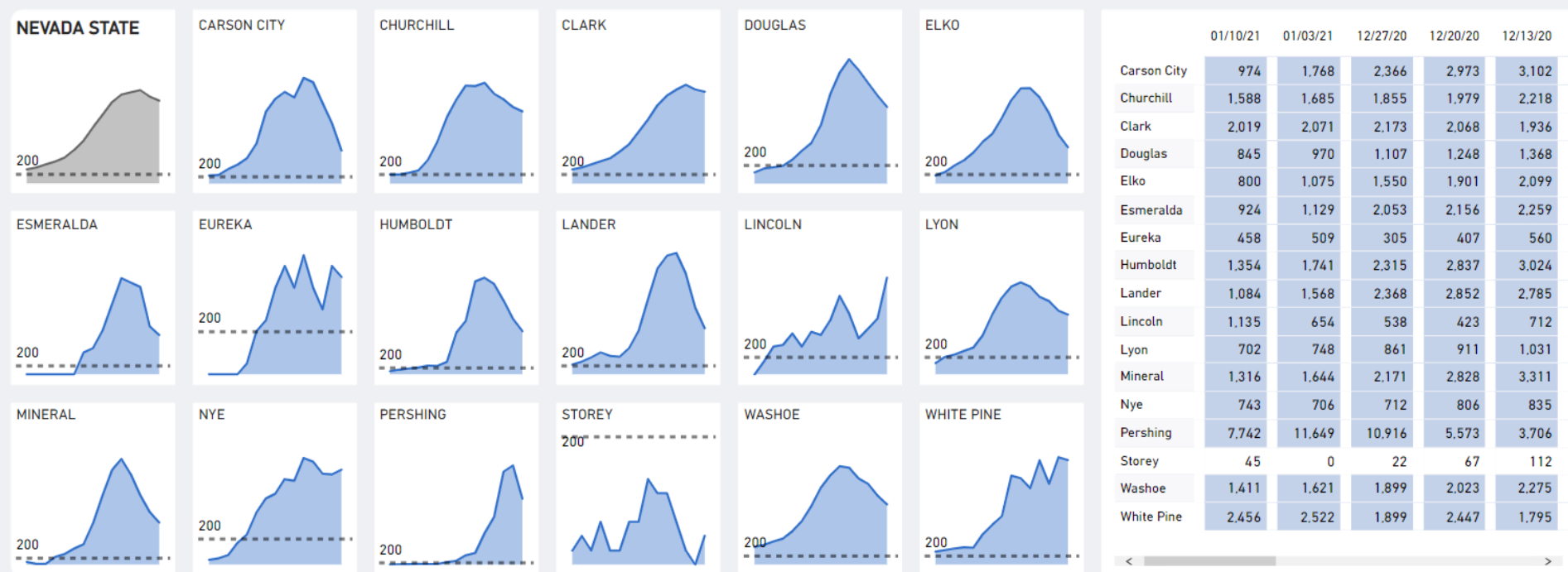
COVID-19 County Tracker

COUNTY TRACKER - CASES PER 100K PEOPLE

DATA AS OF 1/10/2021

Case Rate per 100,000. Threshold > 200

The total number of cases diagnosed and reported over a 30-day period divided by the number of people living in the county. This number is then multiplied by 100,000 to control for varying populations in counties. Counties with a case rate greater than 200 per 100,000 will meet this criterion. County graphs are not presented on the same scale and should not be used for comparison purposes. For county-level comparisons, use the data table on the right. [Learn more](#)



For case rates, we have seen declining (improving) trends in the following counties: Carson City, Churchill, Douglas, Elko, Esmeralda, Humboldt, Lander, Lyon, Mineral, Pershing, Storey, and Washoe.



These data include prison cases.

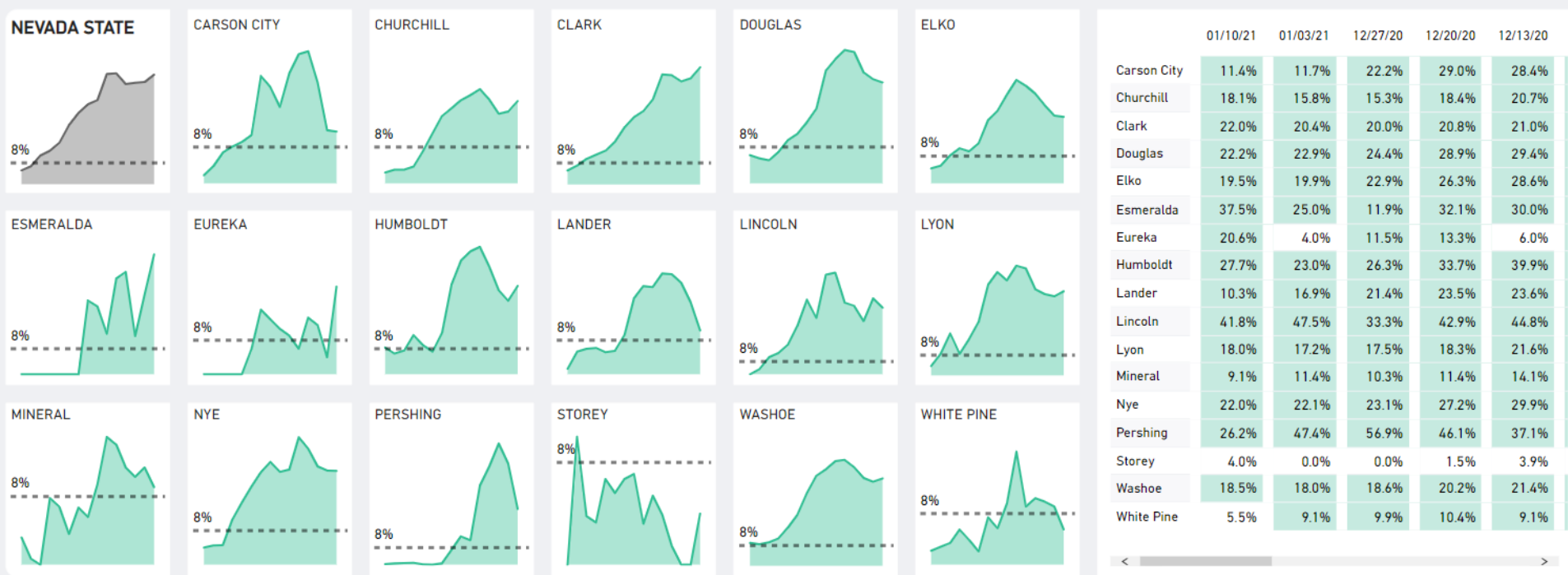
COVID-19 County Tracker

COUNTY TRACKER - TESTS POSITIVITY RATE

DATA AS OF 1/10/2021

Test Positivity Rate. Threshold: (1) Test Positivity > 8.0% and Case Rate per 100,000 > 50

The total number of positive molecular tests divided by the total number of molecular tests conducted. This number is then multiplied by 100 to get a percentage. Due to reporting delay (which may be different between positive and negative tests), this is reported over a 14-day period with a 7-day lag. County graphs are not presented on the same scale and should not be used for comparison purposes. For county-level comparisons, use the data table on the right. [Learn more](#)



- For test positivity, we have seen declining (improving) trends in the following counties: Carson City, Douglas, Elko, Lander, Mineral, and Pershing.



COVID-19 County Tracker

COUNTY TRACKER - TEST/DAY PER 100K PEOPLE

DATA AS OF 1/10/2021

Average Number of Tests per Day per 100,000. Threshold < 100.
The average number of molecular tests conducted in the most recent complete two week period in a county, divided by the number of people living in the county. This number is then multiplied by 100,000 to control for varying populations in counties. Due to reporting delay, this is reported over a 14-day period with a 7-day lag. County graphs are not presented on the same scale and should not be used for comparison purposes. For county-level comparisons, use the data table on the right. [Learn more](#)



	01/10/21	01/03/21	12/27/20	12/20/20	12/13/20
Carson City	320	374	447	506	458
Churchill	306	369	490	488	391
Clark	386	435	513	508	418
Douglas	146	149	163	173	192
Elko	136	182	245	305	306
Esmeralda	117	205	308	389	440
Eureka	124	91	94	163	302
Humboldt	160	221	304	379	357
Lander	311	430	511	532	529
Lincoln	76	55	41	48	40
Lyon	144	151	178	199	187
Mineral	501	590	821	933	944
Nye	147	133	137	133	116
Pershing	624	1,043	949	823	589
Storey	40	38	46	109	123
Washoe	281	321	392	421	402
White Pine	1,047	1,204	1,149	887	461



12

These data include prison cases.

COVID-19 County Tracker (Comparison)

County Tracker Results Comparison, with and without the inclusion of prison inmate-related testing encounters, January 12, 2020

Current Methodology				
County	Testing*	Case Rate†	Test Positivity‡	Score
Carson City	300	1,024	12.7%	2
Churchill	308	1,631	20.7%	2
Clark	385	2,058	22.6%	2
Douglas	132	883	21.4%	2
Elko	136	753	16.7%	2
Esmeralda	147	924	35.0%	2
Eureka	105	458	27.6%	2
Humboldt	201	1,442	26.0%	2
Lander	279	1,084	8.1%	2
Lincoln	234	1,154	16.5%	2
Lyon	149	724	18.3%	2
Mineral	467	1,425	8.4%	2
Nye	154	782	23.0%	2
Pershing	319	7,699	20.9%	2
Storey	37	45	4.3%	1
Washoe	278	1,427	18.0%	2
White Pine	1,043	1,757	5.5%	1

Excluding Prison Inmate-Related Testing Encounters				
County	Testing*	Case Rate†	Test Positivity‡	Score
Carson City	286	1,047	13.4%	2
Churchill	300	1,589	20.7%	2
Clark	381	2,054	22.8%	2
Douglas	131	881	21.4%	2
Elko	139	772	16.7%	2
Esmeralda	149	938	35.0%	2
Eureka	117	509	27.6%	2
Humboldt	207	1,481	26.0%	2
Lander	278	1,082	8.1%	2
Lincoln	264	1,303	16.5%	2
Lyon	153	746	18.3%	2
Mineral	469	1,434	8.4%	2
Nye	161	815	23.0%	2
Pershing	463	11,167	20.9%	2
Storey	37	45	4.3%	1
Washoe	285	1,466	18.0%	2
White Pine	76	473	25.7%	3

Difference				
County	Testing*	Case Rate†	Test Positivity‡	Score
Carson City	-5%	2%	6%	-
Churchill	-3%	-3%	0%	-
Clark	-1%	0%	1%	-
Douglas	0%	0%	0%	-
Elko	3%	3%	0%	-
Esmeralda	2%	2%	0%	-
Eureka	11%	11%	0%	-
Humboldt	3%	3%	0%	-
Lander	0%	0%	0%	-
Lincoln	13%	13%	0%	-
Lyon	3%	3%	0%	-
Mineral	0%	1%	0%	-
Nye	5%	4%	0%	-
Pershing	45%	45%	0%	-
Storey	1%	0%	NA	-
Washoe	3%	3%	0%	-
White Pine	-93%	-73%	367%	(2)

*Average Number of Tests Per Day (per 100,000)

†Cases (per 100,000)

‡Total number of positive molecular tests divided by the total number of molecular tests conducted multiplied by 100.

Excluding prison/inmate population does not significantly impact any counties' overall status for elevated disease transmission, except for White Pine.

Counties that have relatively high increases in testing and case rates after excluding prison inmate populations are due to having few to zero COVID-19 positive inmates. Since the number of tests and/or cases remain relatively constant and the population size (denominator) is smaller without the inmate population, we would expect to see increases in testing and case rates.

Epidemiology Approach

- Epidemiology response changes as the pandemic continues to evolve
- Disease investigation and contact tracing is less effective when there is a higher disease burden
- There must be a shift in approach to disease investigation and contact tracing
 - Prioritization and targeting for those at higher risk, congregate settings and schools
 - Abbreviated case investigations
 - Automated tools for response and information gathering



Discussion

To request additional data, email the DHHS Office of Analytics at data@dhhs.nv.gov